

Fig. 1

FIG. 2 is a block diagram of a system for processing data from a sensor array. The system includes a Data Collection Unit (30), an Image Segmentation Unit (32), and a Segment Tracking Unit (34). The Data Collection Unit (30) is connected to the Image Segmentation Unit (32), which is in turn connected to the Segment Tracking Unit (34). The Segment Tracking Unit (34) is also connected to a control unit (16).

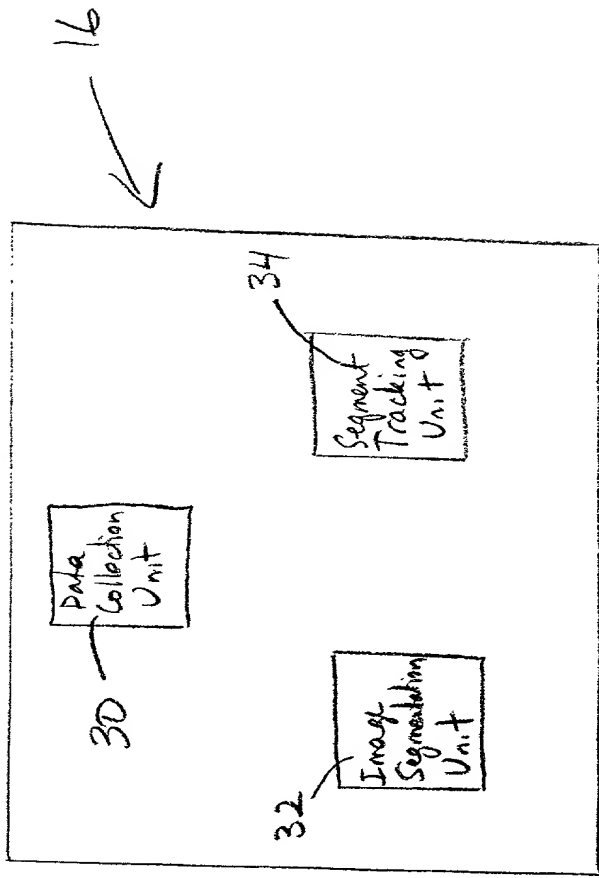


Fig. 2

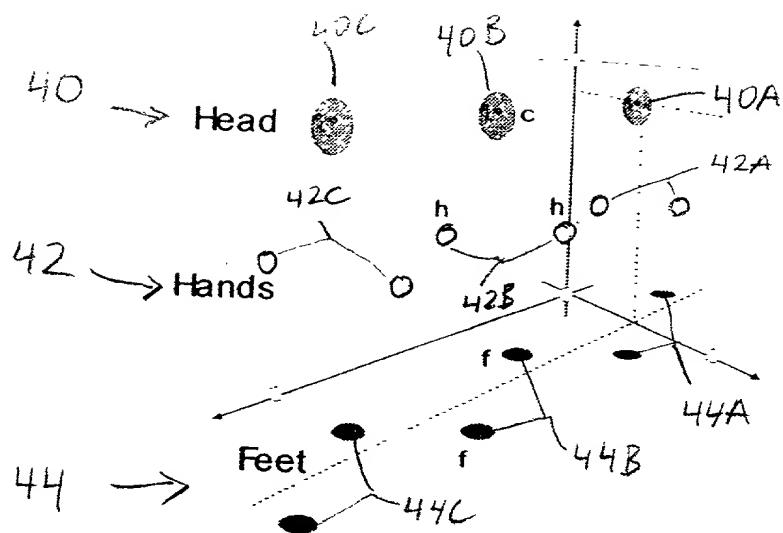


Fig. 3

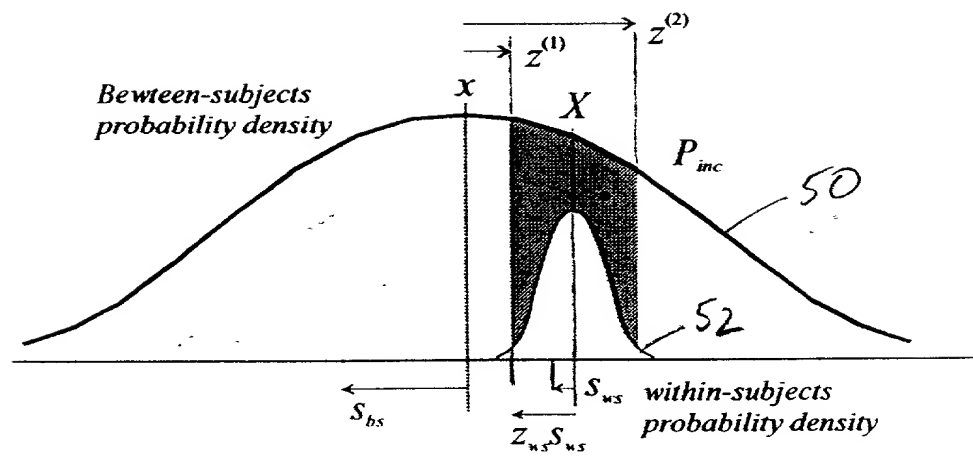
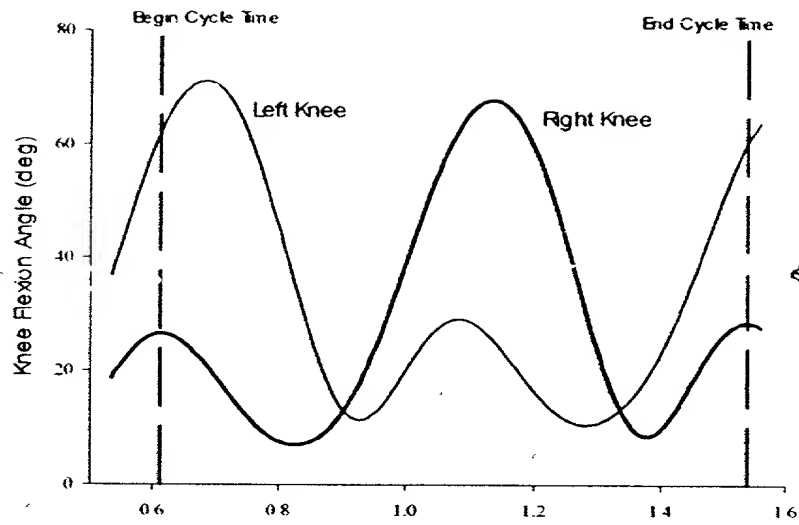


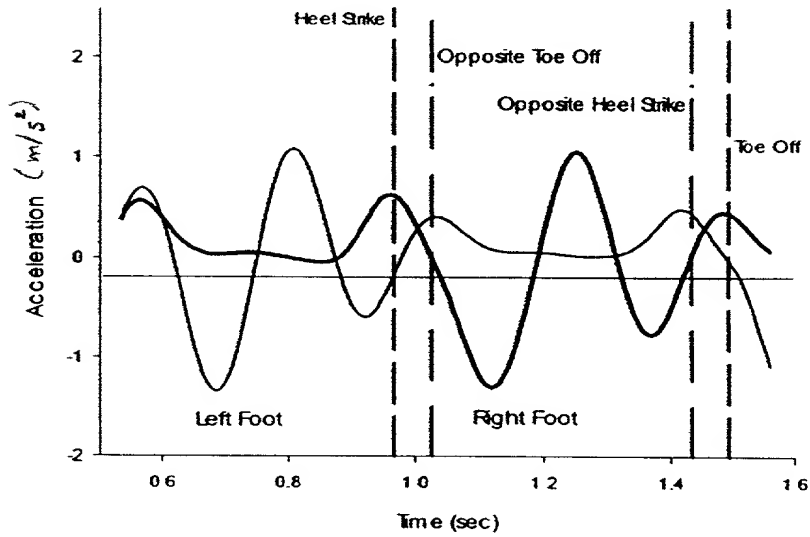
Fig. 4

Fig. 5A



60

Fig. 5B



62

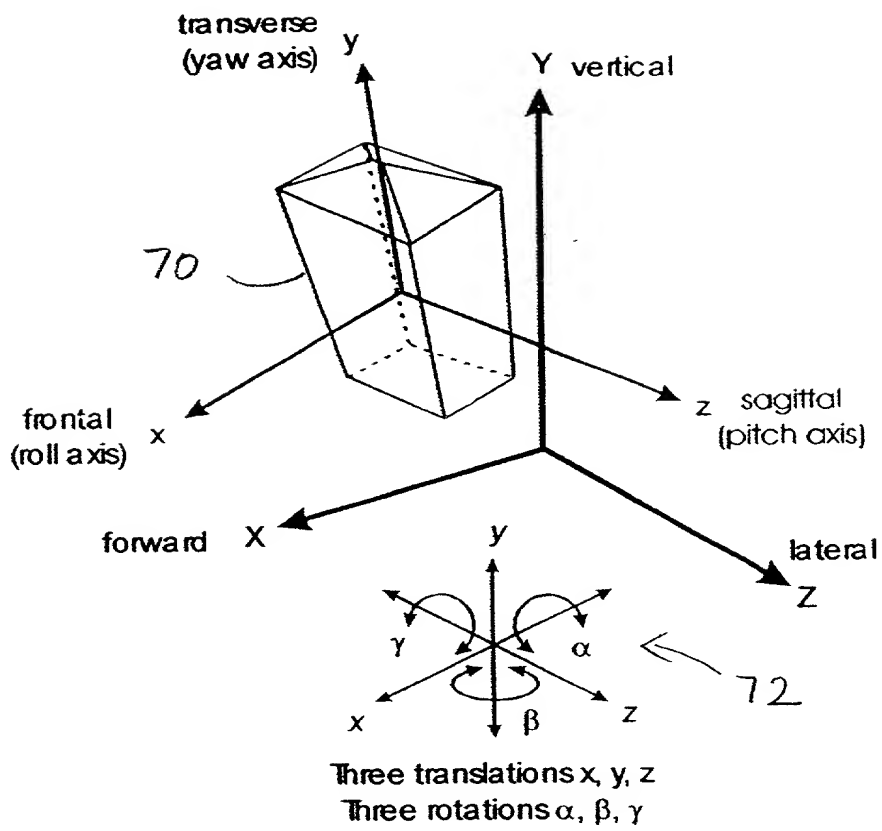


Fig. 6

80

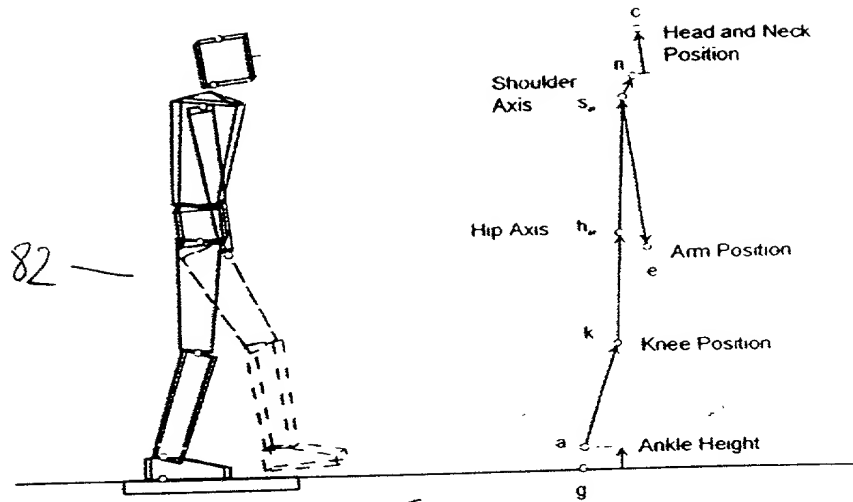


Fig. 7A

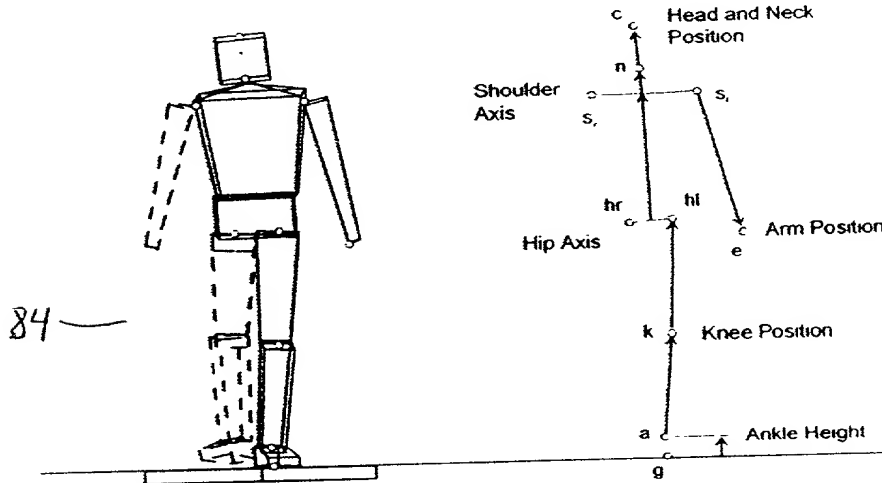


Fig. 7B

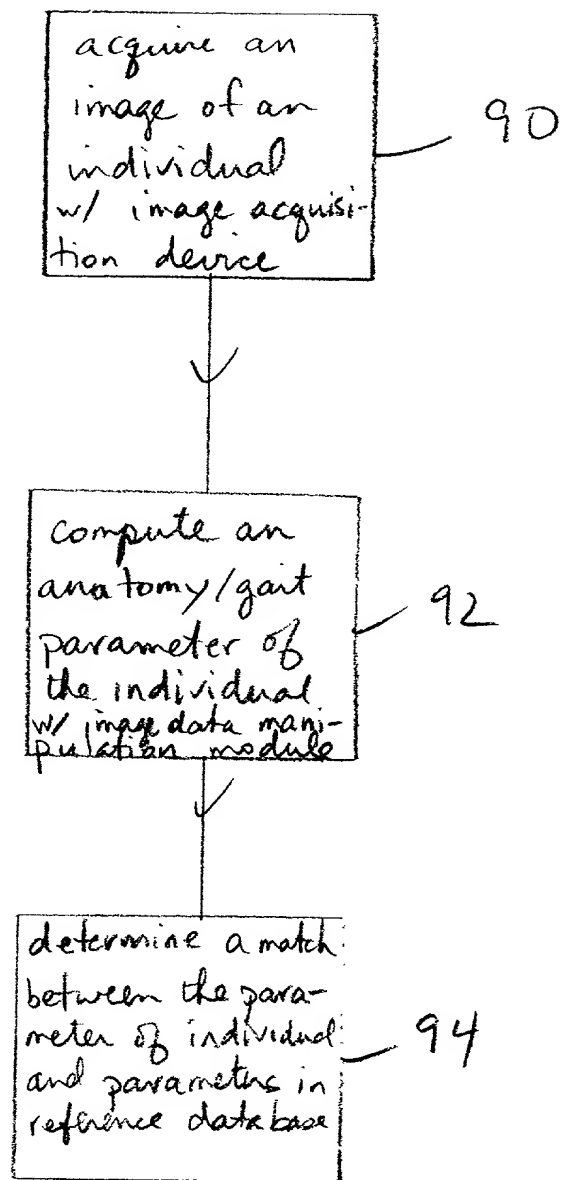


Fig. 8